

PDCE2 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P71676
Synonyms:	Dlat; DihydropolypoLlysine-residue acetyltransferase component of pyruvate dehydrogenase complex; Pyruvate dehydrogenase complex component E2; PDC-E2; PDCE2
Species:	Mouse
Source:	HEK293
Accession:	Q8BMF4 (S86-L642)
Gene ID:	235339
Molecular Weight:	75-95 kDa

PROPERTIES

AA Sequence

S L P P H Q K V P L	P S L S P T M Q A G	T I A R W E K K E G	E K I S E G D L I A
E V E T D K A T V G	F E S L E E C Y M A	K I L V P E G T R D	V P V G S I I C I T
V E K P Q D I E A F	K N Y T L D L A A A	A A P Q A A P A A A	P A P A A A P A A P
S A S A P G S S Y P	T H M Q I V L P A L	S P T M T M G T V Q	R W E K K V G E K L
S E G D L L A E I E	T D K A T I G F E V	Q E E G Y L A K I L	V P E G T R D V P L
G A P L C I I V E K	Q E D I A A F A D Y	R P T E V T S L K P	Q A A P P A P P P V
A A V P P T P Q P V	A P T P S A A P A G	P K G R V F V S P L	A K K L A A E K G I
D L T Q V K G T G P	E G R I I K K D I D	S F V P S K A A P A	A A A A M A P P G P
R V A P A P A G V F	T D I P I S N I R R	V I A Q R L M Q S K	Q T I P H Y Y L S V
D V N M G E V L L V	R K E L N K M L E G	K G K I S V N D F I	I K A S A L A C L K
V P E A N S S W M D	T V I R Q N H V V D	V S V A V S T P A G	L I T P I V F N A H
I K G L E T I A S D	V V S L A S K A R E	G K L Q P H E F Q G	G T F T I S N L G M
F G I K N F S A I I	N P P Q A C I L A I	G A S E D K L I P A	D N E K G F D V A S
V M S V T L S C D H	R V V D G A V G A Q	W L A E F K K Y L E	K P I T M L L

Biological Activity The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

Appearance Lyophilized powder.

Formulation Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol or 50 mM Tris-HCL, 300 mM NaCl, pH 7.4, 10% Glycerol.

Endotoxin Level <1 EU/μg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O.

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

PDCE2 protein is a key component of the pyruvate dehydrogenase complex, a critical enzyme assembly that plays a pivotal role in cellular metabolism. This complex orchestrates the comprehensive conversion of pyruvate into acetyl-CoA and CO₂, serving as a crucial metabolic link connecting glycolysis to the tricarboxylic acid (TCA) cycle. The catalytic function of PDCE2 is integral to the efficient utilization of pyruvate, ensuring the flux of carbon compounds through key metabolic pathways essential for energy production and cellular homeostasis.

Caution: Product has not been fully validated for medical applications. For research use only.

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